

2-2-2 AV IP
2-2-2-1 AV IP
AV IP

AV

AV AV IP
AV IP
IP
AV IP

1 IEEE1394 Ethernet*1
IEEE1394 Ethernet*1
Ethernet*1

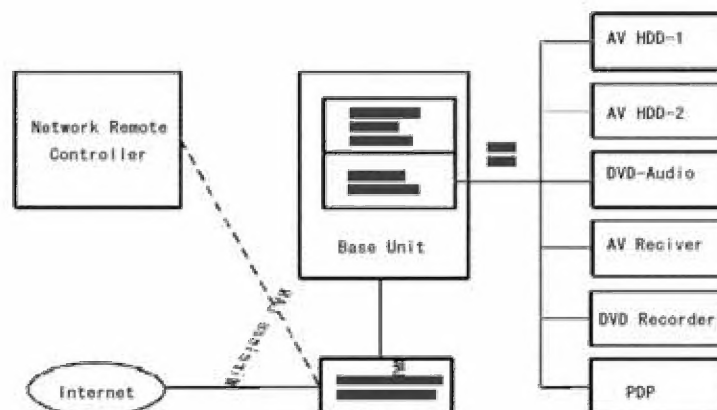
2 Web Web
Web Web
HTTP HTTP GUI HTML
Web
HTML
HTML CG

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

Web
PDA

AV

1



AV 12 3 2003 3
31
3 3.

図 2-10 ネットワーク接続の構成

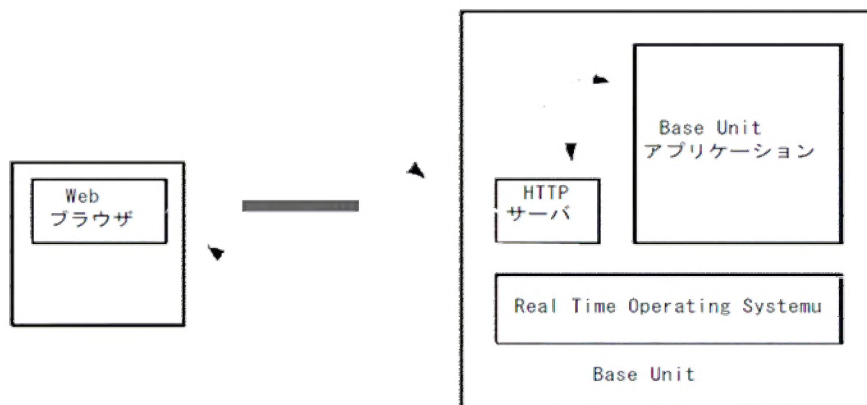


図 2-10 ネットワーク接続の構成。AV/ネットワーク接続の構成。12月 3日 2003年 3月 31日。ネットワーク接続の構成。4月 4日。ネットワーク接続の構成。

図 2-10 ネットワーク接続の構成

Consumer home network connectivity HAV HAV, Inc. HAV, Inc. 2006年 2月 4日
<http://www.havi.org/>

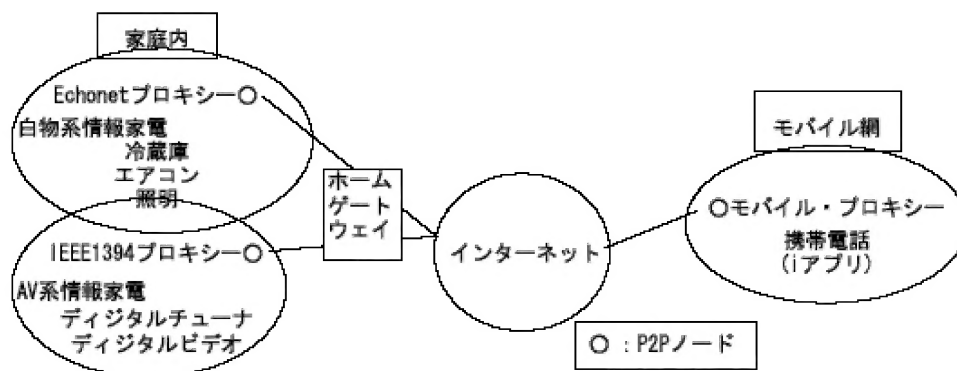
※ 1 Ethernet ネットワーク接続の構成

2-2-2 P2P

1

1. i *1
2. P2P ECHONET*2
3. IEEE1394 AV/AV/C

1



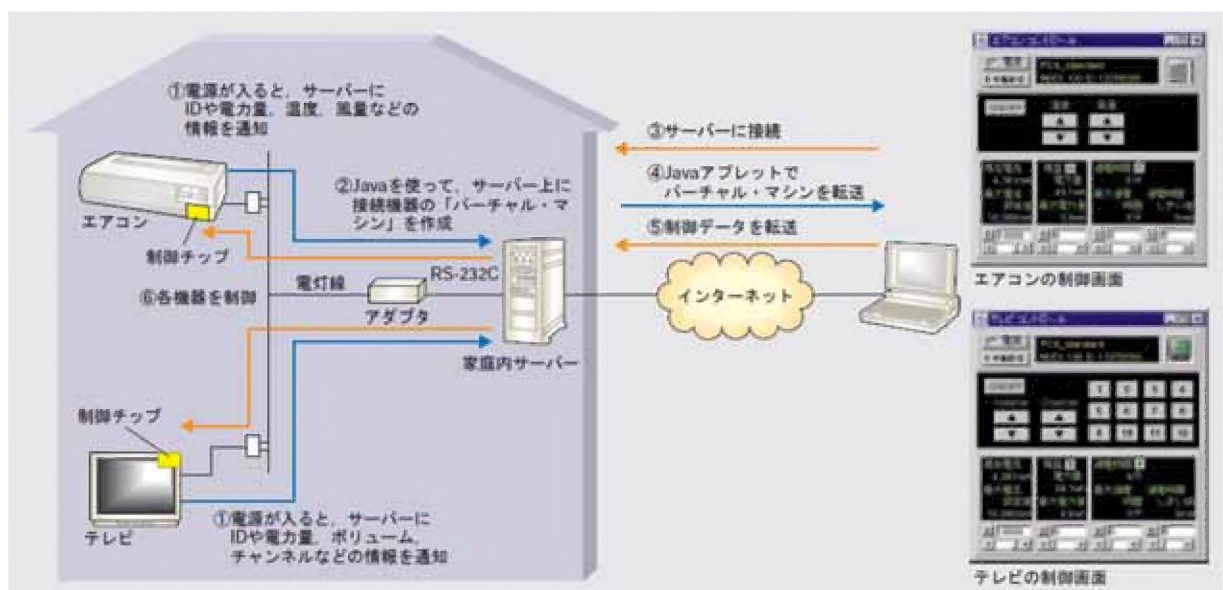
* i

* ECHONET

2-2-2 2-2-3 JAVA^{※1}

Web 1 JAVA^{※1} JAVA^{※1} ID

1



※ JAVA Sun Microsystems, Inc.

100M 268 1998 4 20 BP BP 146 4. OpenCLANET

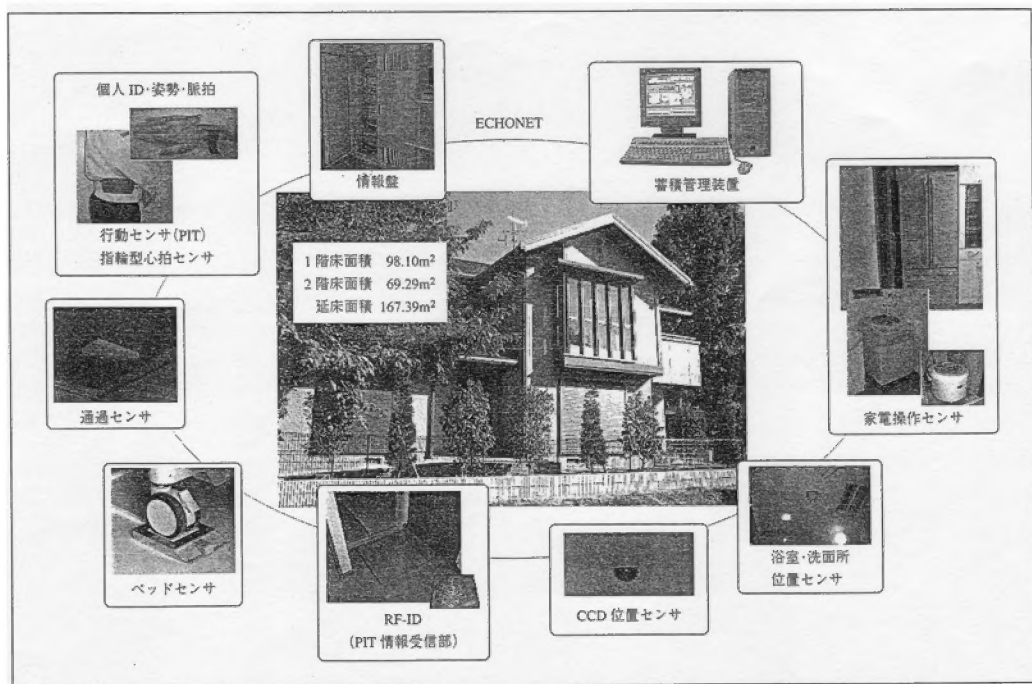
OpenPLANET Web 2006 2 4 http://www.openplanet.jp

※ 1 JAVA Sun Microsystems, Inc.

2-2-2 2-2-2-4

1 15 167 ECHONET* 13

1



* ECHONET

()--() 59 5 2005 5 31 723 6

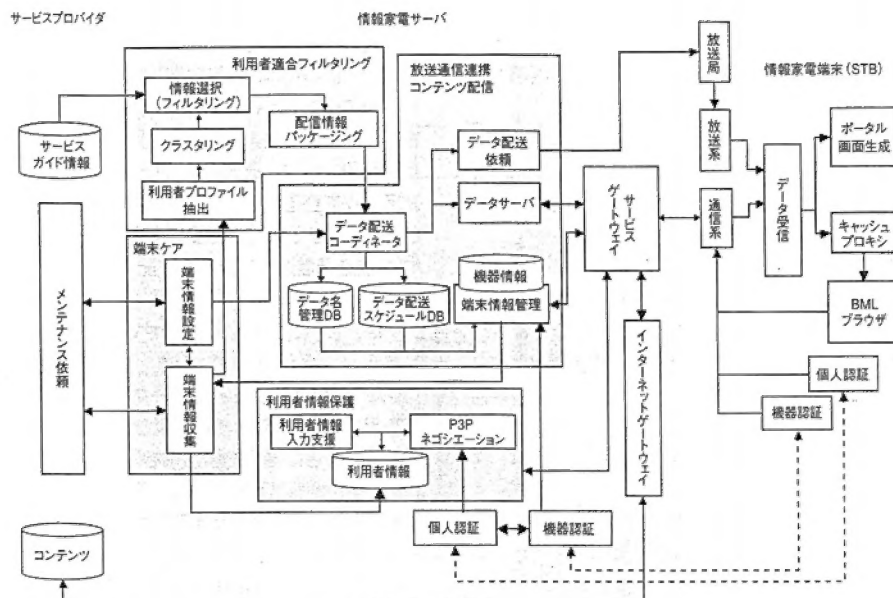
* 1 ECHONET

2-2-2 2-2-2-6 STB

1 STB PC End-to-End 1 PC (1) (2) (3) (4)

(1) 2 Web FAX

1 STB



() STB 48 1 2002 2 28 44 2. STB 2

□ □ □ □ □ □

111

47
 3 2003 3 31
 1

The screenshot shows a Microsoft Internet Explorer window. The address bar displays 'http://cool/'. The page content features a large, bold number '+3119.3g' on the left. To its right, there is a list of timestamps and corresponding actions, such as '14:19:42 2001/10/30 I poured you 153 cc waters.' The list continues with various timestamps and actions, including '14:15:02 2001/10/30 I poured you 32 cc waters.' and '17:05:26 2001/10/29 I poured you 16 cc waters.' The list ends with '14:01:47 2001/10/03 I poured you 81 cc waters.' The browser's status bar at the bottom indicates 'ページが表示されました' (Page displayed successfully).

Timestamp	Action
14:19:42 2001/10/30	I poured you 153 cc waters.
14:15:02 2001/10/30	I poured you 32 cc waters.
17:05:26 2001/10/29	I poured you 16 cc waters.
14:11:47 2001/10/03	21 cc refilled. (-)
14:10:57 2001/10/03	I poured you 44 cc waters.
14:02:42 2001/10/03	I poured you 69 cc waters.
14:01:47 2001/10/03	I poured you 81 cc waters.
13:49:34 2001/10/03	I poured you 2772 cc waters.
13:43:29 2001/10/03	I poured you 15 cc waters.
13:41:39 2001/10/03	49 cc refilled. (-)
13:40:59 2001/10/03	I poured you 10 cc waters.
13:38:34 2001/10/03	I poured you 15 cc waters.
13:36:39 2001/10/03	I poured you 131 cc waters.
13:35:34 2001/10/03	46 cc refilled. (-)
13:25:12 2001/10/03	I poured you 2020 cc waters.
13:25:07 2001/10/03	I poured you 11 cc waters.
12:14:12 2001/08/03	I poured you 103 cc waters.
11:34:52 2001/08/03	167 cc refilled. (-)
11:19:02 2001/09/03	98 cc refilled. (-)
14:31:23 2001/10/30	I poured you 153 cc waters.
14:19:42 2001/10/30	I poured you 153 cc waters.
14:15:02 2001/10/30	I poured you 32 cc waters.
17:05:26 2001/10/29	I poured you 16 cc waters.
14:11:47 2001/10/03	21 cc refilled. (-)
14:10:57 2001/10/03	I poured you 44 cc waters.
14:02:42 2001/10/03	I poured you 69 cc waters.
14:01:47 2001/10/03	I poured you 81 cc waters.

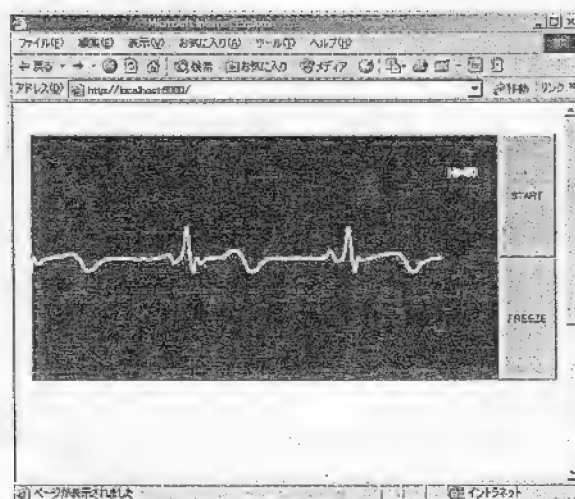
□ □ □ □ □ □ □ □ □ □

2-2-2 2-2-8 JAVA^{※1}

1 JAVA^{※1} WWW 16kbps 9.6kbps 1 0.5 3 2 1 2

1. A/D
- 2.
- 3.
- 4.
- 5.

n n/2 50% JAVA^{※1} JAVA^{※1} WWW 9.6kbps 0% 1 WWW ECG



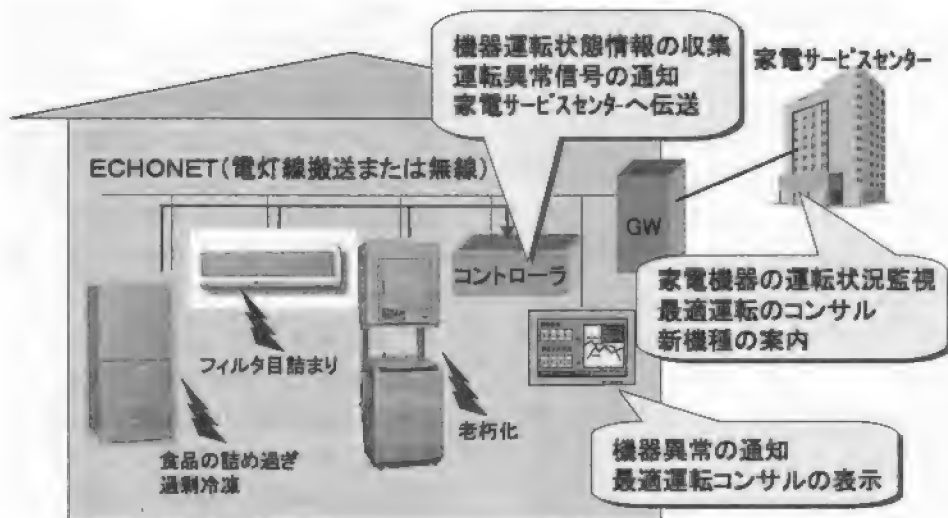
(47 3 2003 3 31 144 5 WWW ECG

※ 1 JAVA Sun Microsystems, Inc.

2-2-2 2-2-2-9

- 1.
- 2.
- 3.
- 4.
- 5.

1



※ ECHONET

"ECHONET" 87 10 2003 10 31 843 7. ECHONET

ECHONET CONSORTIUM 2006 2 4 <http://www.echonet.gr.jp/>

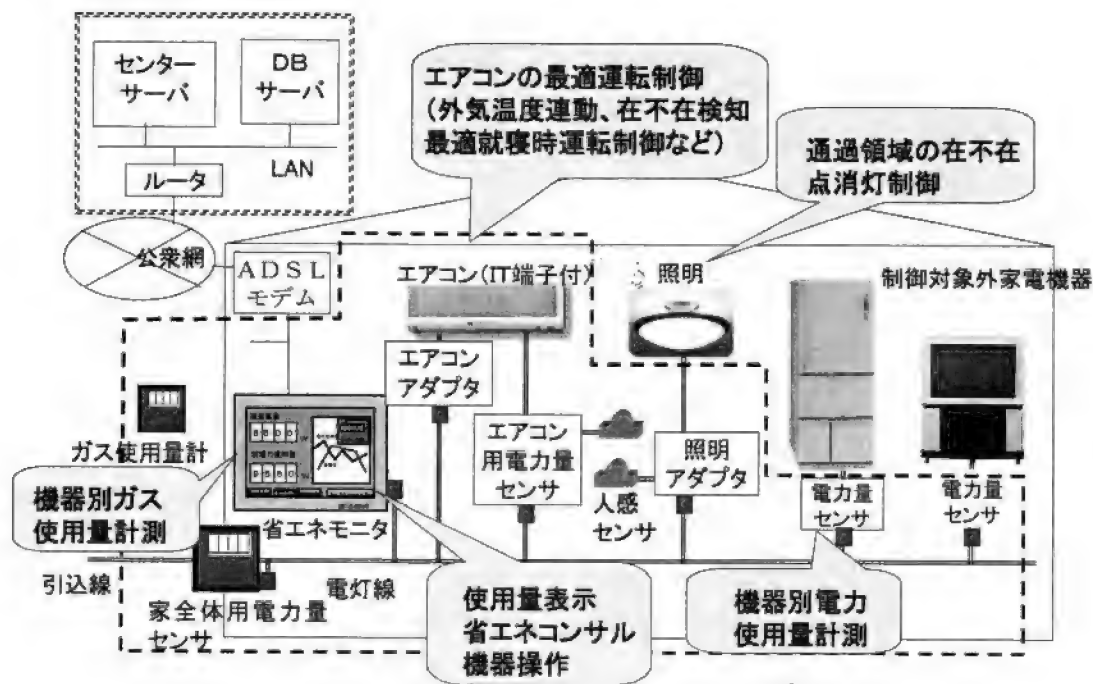
[illegible]

□ □ □ □ □ □

[illegible]

- [illegible]

111



中国互联网络信息中心(CNNIC)发布的《中国互联网络发展状况统计报告》显示,截至2003年10月31日,中国网民总数为843万,比8月增加了8.4%。

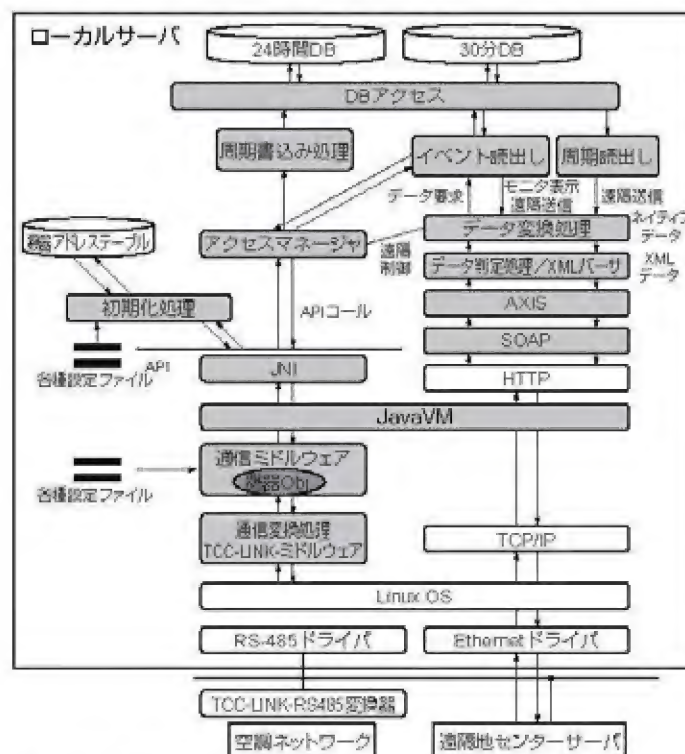
□ □ □ □ □ □ □ □ □

http://www.echonet.gr.jp/ 2006 2 4

2-2-2 2-2-2-11 SOAP/XML

1
2
SOAP
SOAP
1
(1)
(2)
DB
XML
(3)
SOAP
Linux^{*1} JAVA^{*2} VM
2

1



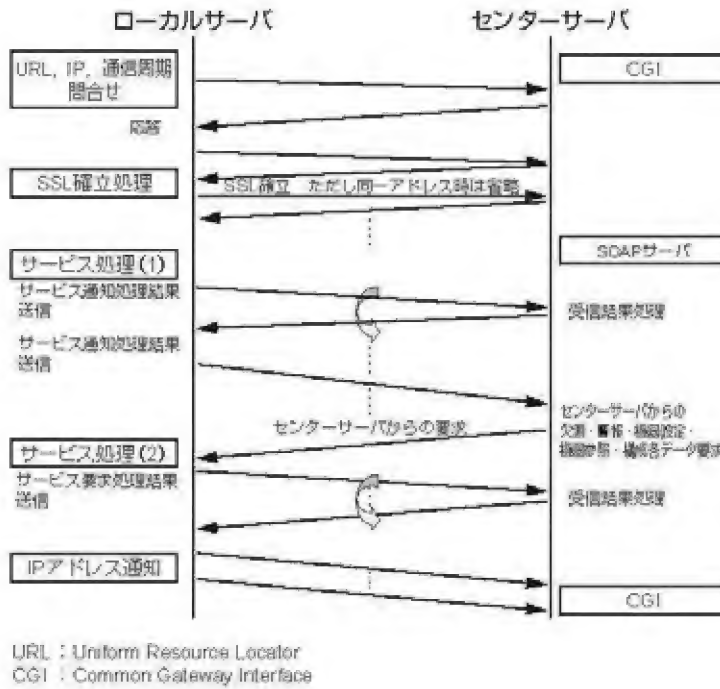
JNI : Java Native Interface Obj : Object
TCP/IP : Transmission Control Protocol/Internet Protocol

* Linux Linus Torvalds

* JAVA Sun Microsystems, Inc.

60 6 2005 6 30
54 3.
000

2

[illegible]

- ※ 1 Linux Linus Torvalds
- ※ 2 JAVASun Microsystems, Inc.

2-2-2 2-2-2-12 PC 1 2 TV VPN RMP(Remote Maintenance access control Protocol)

1 TV



RMP NTT 15 5 2003 5 31 29 6 TV

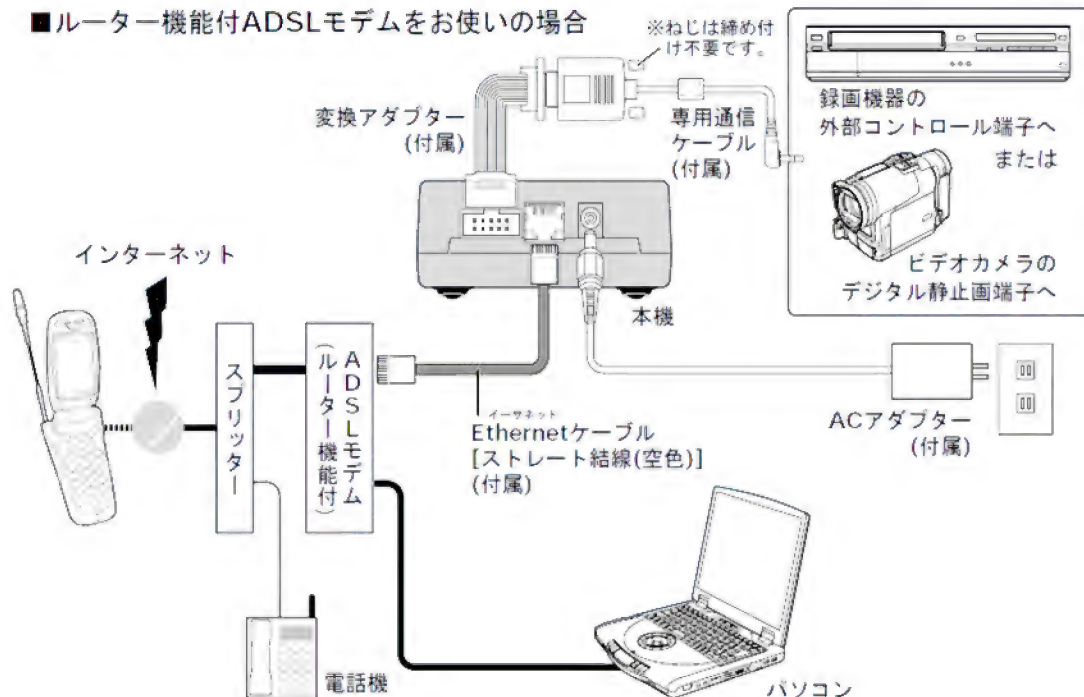
2-2-2 2-2-2-13 Web

ADSL Web 1

1. ADSL ID
- 2.
3. ADSL / Ethernet^{※1}
- 4.
- 5.

1

■ルーター機能付ADSLモデムをお使いの場合



※ Ethernet

Panasonic IT VV-NET1 2002 4 30 20 1. 2006 2 27

<http://www.sense.panasonic.co.jp/shop/ncpo/ita/support/download/VV-NET1.pdf>

ADSL IT VV-NET1

ASCII 24 2002 4 16 ASCII Corp. ASCII Corp.

2006 2 4 <http://ascii24.com/news/i/hard/article/2002/04/16/635226-000.html>

※ 1 Ethernet

アプリケーション

```

:
nvo_count = 123;
:      代入
  
```

アプリケーション

```

when(nv_update_occurs
      (nvo_count))
{
  process..... 検出
}
  
```

NVによる通信

NEURON Chip

28pin SOP

FTT-10A Transceiver

約18 x 14 x 7mm

L7: NVタイプ

L6: ネットワーク変数

L5: 認証、管理等

L4: 二重検出等

L3: ルーティング

L2: 予測CSMA等

L1: 変/復調

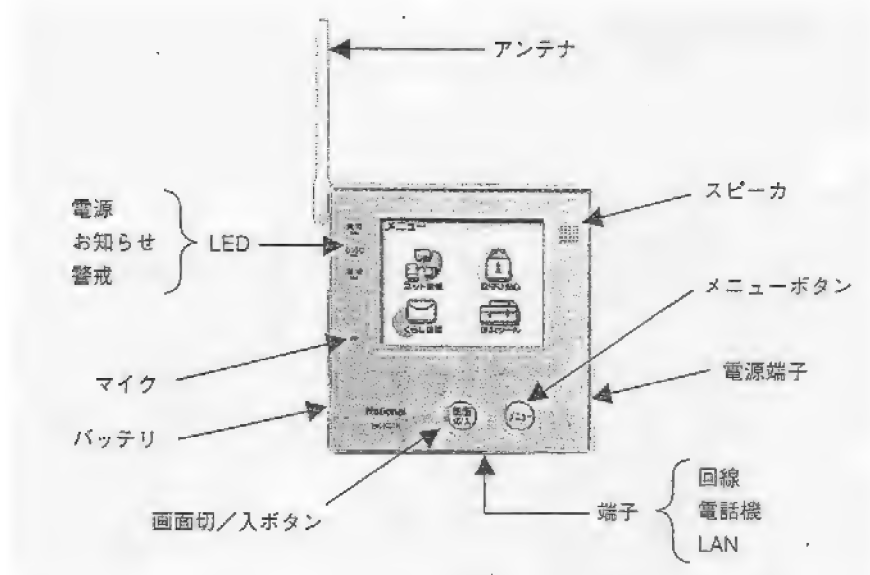
LonWorks Echelon Japan/ & 2006 2 4
http://www.echelon.co.jp/products/lonworks.htm

— 273 —

2-2-2 2-2-2-16

1 K-ST (1) (2) (3) (4) ECHONET*1 (1) (2) K-ST (3) (4) K-ST 1 1

K-ST



50 3 2004 6 30 15 2. K-ST

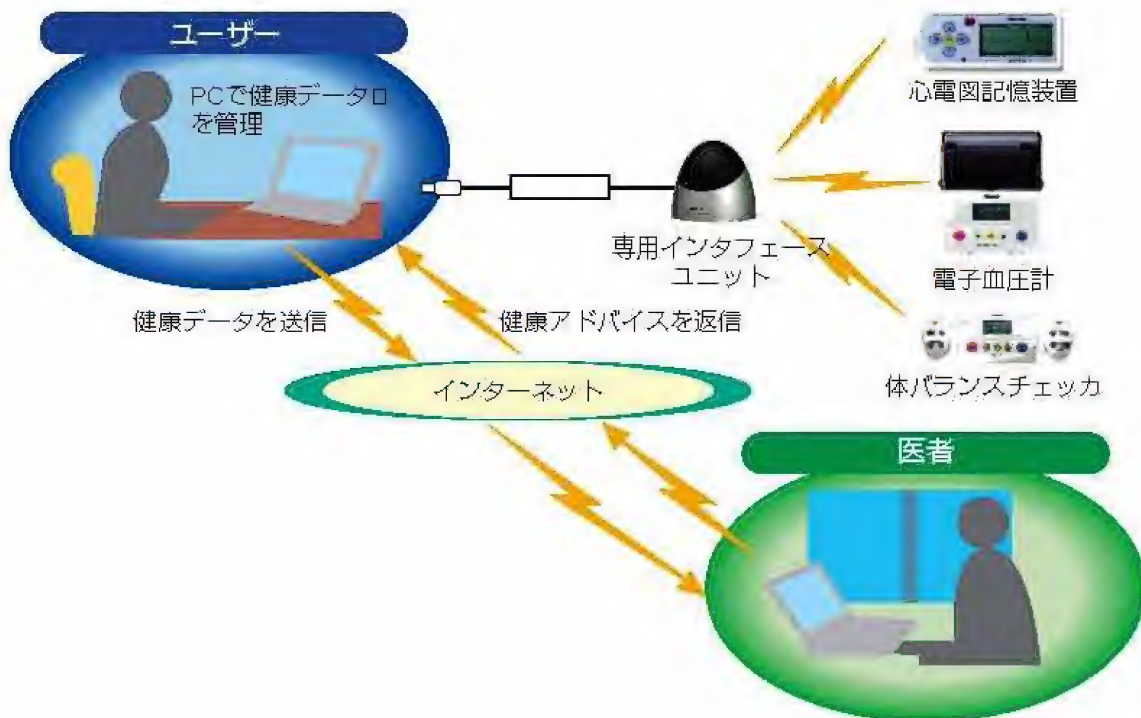
* 1 ECHONET

2-2-2 2-2-2-17

1

AV

1



60 7 2005 7

31 91 4. “ ”

2-2-2 SIP(Session Initiation Protocol)

1

2 end-to-end

Originator(a)

Appliance Controller or RGW(b) (a) Interworking Unit
SIP IP
IP capable Appliance(c) UA

Proxy Location Database UA
Home Domain Proxy (entity:
NAT

Location Database Home

(a) SIP Appliances Proxy UA Proxy

(b) Application Registration & Location Location Database

(c) Appliance-specific control interface IP SIP
PC IP

SIP SIP Proxy

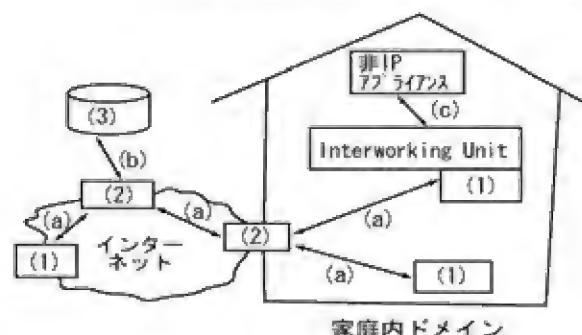
1

SIP

構成要素 (1) SIP UA (User Agent)
(2) SIP Proxy
(3) Location Database

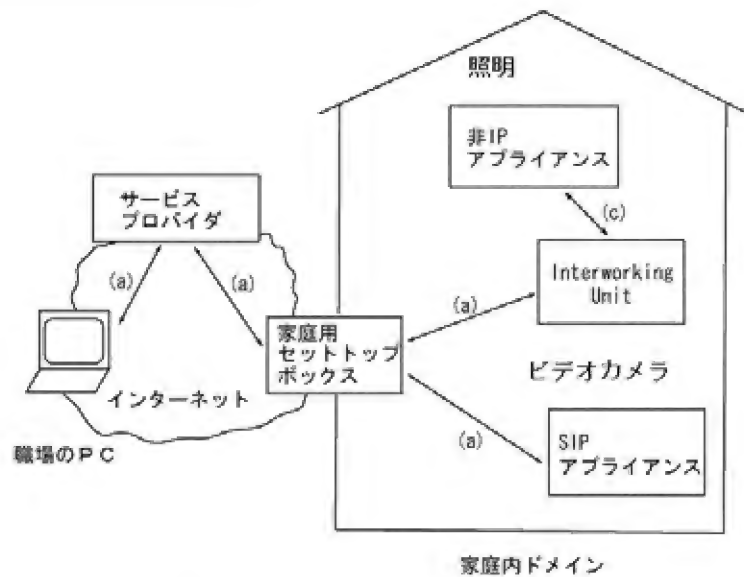
インタフェース

(a) SIP Appliances
(b) Application Registration & Location
(c) Appliance-specific control interface



1

2 SIP



(a) SIP Appliances

(c) Appliance-specific control interface

Framework Draft for Networked Appliances using the Session Initiation Protocol

Internet Engineering Task Force 2001 6 S. Mayer, D. Narpl es, S. Tsang, J. katz,

P. Gurung, T. Cheng, A. Dutta, S. Mayer, D. Narpl es, S. Tsang, J. katz, P. Gurung, T. Cheng,

A. Dutta 1-25 2006 2 27

<http://citeseer.ist.psu.edu/cache/papers/cs/23605/http%3A%2F%2FzSzzSzsunsite.cnl%2Fswitch.chzS>

<http://ftp.zSznirrorzSzi nternet-draftszSzdraft-noyer-si p-appl iances-framework-02.pdf/noyer01f>

framework.pdf

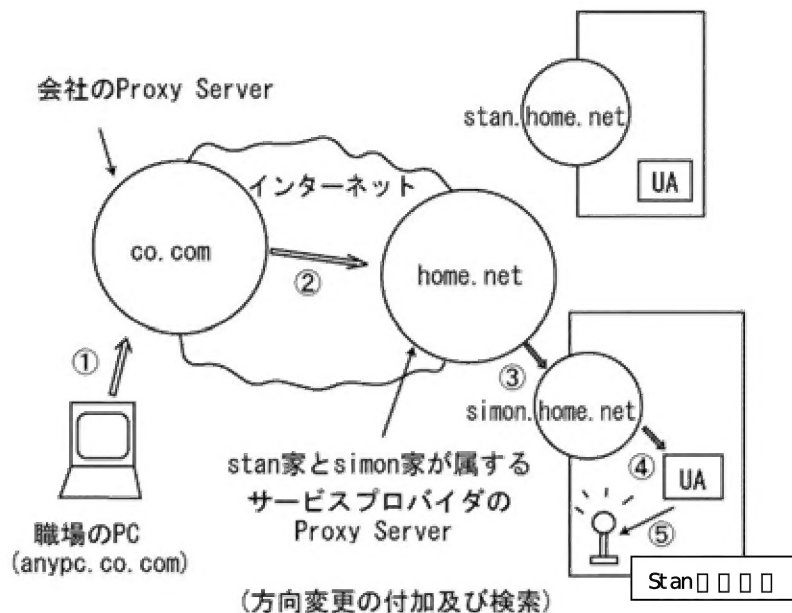
2-2-2 SIP(Session Initiation Protocol) 2-2-2-19

1 SIP

(co.com) PC(anypc.co.com) home.net Stan (stan.home.net) SIP Proxy Server(co.com) Stan Proxy Server(home.net) stan.home.net si non.home.net home.net Proxy Server (re-directi on) stan.home.net home.net si non.home.net UA(User Agent) home.net Proxy Server Stan Si non URI @tan.home.net @i non.home.net SIP si non.home.net SIP @ia.si non.home.net

1

1



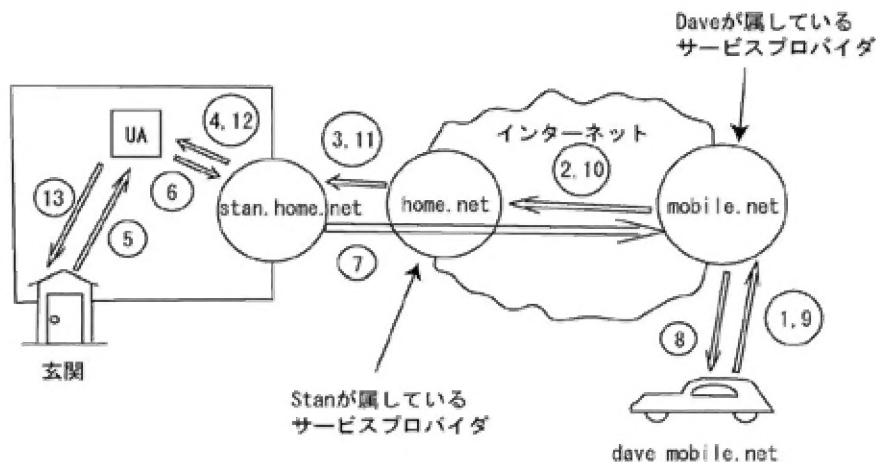
Framework Draft for Networked Appliances using the Session Initiation Protocol Internet Engineering Task Force 2001 6 S. Mayer D. Narpl es S. Tsang J. katz P. Gurung T. Cheng A. Dutta S. Mayer D. narpl es S. Tsang J. katz P. Gurung T. Cheng A. Dutta 1-25 2006 2 27

[http://citeseer.ist.psu.edu/cache/papers/cs/23605/http:zSzzSzsunsite.cnlab-switch.chzS zftpzSznirrozSzi nternet-draftszSzdraft-noyer-si p-appl iances-framework-02.pdf/noyer01f ramework.pdf](http://citeseer.ist.psu.edu/cache/papers/cs/23605/http%3A%2F%2FzSzzSzsunsite.cnlab-switch.chzS zftpzSznirrozSzi nternet-draftszSzdraft-noyer-si p-appl iances-framework-02.pdf/noyer01f ramework.pdf)

2-2-2 2-2-20

1 SIP Stan Dave Dave Web Stan Dave SIP (SUBSCRIBE) mobile.net Dave home.net Stan Proxy Server UA (ua.stan.home.net) UA ID SI P (NOTIFY) SI P ua.stan.home.net stan.home.net - home.net - mobile.net Dave Stan Stan SI P (DO) dave.mobile.net - mobile.net - home.net - stan.home.net ua.stan.home.net

1



図の数値は通信順

Framework Draft for Networked Appliances using the Session Initiation Protocol
 Internet Engineering Task Force 2001 6 S. Mayer D. Narpl es S. Tsang J. katz
 P. Gurung T. Cheng A. Dutta S. Mayer D. Narpl es S. Tsang J. katz P. Gurung T. Cheng
 A. Dutta 1-25 2006 2 27
<http://citeseer.ist.psu.edu/cache/papers/cs/23605/http:zSzzSzsunsite.cnlab-switch.chzSzfztpzSznrrorzSzi nternet-draftszSzdraft-noyer-si p-appl iances-framework-02.pdf/noyer01f ramework.pdf>

